

**Professor Waclaw Gudowski,**

**Professor** in Neutron and Reactor Physics at Kungliga Tekniska Högskolan (KTH) - The Royal Institute of Technology in Stockholm, Sweden.

Till 2006 - **Director of the Nuclear Energy Technology Centre (CEKERT)** at the Royal Institute of Technology in Stockholm, Sweden

2006-2011 **Deputy Executive Director**, International Science and Technology Center (ISTC), Moscow

**Member of the Swedish Royal Academy of Engineering**

**Sciences – IVA.**

Author of over 100 scientific papers in nuclear technology, nuclear data and solid state physics.

PhD at the University of Mining and Metallurgy in Krakow (Poland) based on the work done on design of the fast pulsed research reactor IBR-2 in Dubna, Russia. This reactor is still in operation and serves neutron scattering community.

In mid 70's an active research in High Temperature Gas Cooled Reactors (HTGR), few papers published on this subject in 70s.

In 1980's active in basic research using neutron scattering technique at international facilities at Institute Laue Langevin (ILL) in Grenoble and at ISIS facility at Rutherford Appleton Laboratory.

One of the **European pioneers** of research in accelerator driven transmutation of nuclear waste, or so called Accelerator Driven Systems - **ADS**.

From 1996 to 1999 coordinated the first European research project on ADS - Impact of the Accelerator Based Technologies on Nuclear Fission Safety (**IABAT**) with 10 research institutes from 6 European countries. This project has grown and branched into eight different ADS-related projects in the 5<sup>th</sup> FrameWork Programme (FP) of the European Community. In the 6<sup>th</sup> FP - one of the architectures of one the big European Integrated Project - **IP Eurotrans**. Facilitating technology and knowledge transfer to European projects like MegaPIE at PSI and Myrrha at SCK-CEN in Mol.

Till 2006 **Coordinator of the European project** "Impact of Transmutation and Reduction of Waste on Geological Waste Repository – **RED-IMPACT** " with 23 different partners representing 11 European countries. A very specific feature of this project is that partners of the RED-IMPACT project came from 3 different communities: research institutes, universities and waste management agencies/companies.

In 2005 started and coordinated a European project in an education area: "**EU-China Campus for Energy and Environment**". Partners of this successfully developing project are Royal Institute of Technology - Stockholm, Tsinghua University in Beijing, Politecnico di Torino and Harbin Engineering University.

One of the initiators in 1995 of the Fredric Joliot–Otto Hahn Summer School on Nuclear Reactors. For many years Scientific Board Member of this School and its lecturer. Organizer of the Fall Session of FJOH in Forsmark, Sweden – in 2000.

Lecturer and Mentor of the First World Nuclear University (WNU) in Idaho, USA, in 2005. World Nuclear University is today a recognized institution organizing annually summer educational sessions for the best students and young professionals in the nuclear science and technology.

**Since 1992 involved in the activities of the International Science and Technology Center promoting culture of nonproliferation and responsible science.** First as an advisor to the Swedish Ministry of Foreign Affairs, then as a collaborator of more than 30 ISTC projects, an animator and the first chairman of the Contact Expert Group on Partitioning and Transmutation related ISTC projects. An expert in non-proliferation of mass-destruction weapons. Supervised and coordinated a project on construction of the first 1 MW spallation target based on liquid lead-bismut eutectic.

In 1995 the editor of the IAEA Status Report on “Accelerator driven systems: Energy generation and transmutation of nuclear waste”

In 1995-97 prepared opening of the highly classified Russian military archives on heavy metal coolant technology (Pb-Bi and Pb coolants). Co-organiser of the International Workshop on Physics of Accelerator-driven Systems for Nuclear Waste Transmutation and Clean Energy Production, ECT-Trento, September 29-30, 1997 which became a start shot for the civilian heavy metal coolant research in Europe and worldwide.

In 1997 – associated fellow of the Los Alamos National Laboratory and a foreign expert for the Department of Energy in transmutation research.

An active member of the the European Technical Working Group and co-author of “A European Roadmap for Developing Accelerator Driven Systems (ADS) for Nuclear Waste Incineration,” 2001.

In 2003 and 2005 an international expert of the **French Parliament** for public hearing on nuclear power and nuclear waste.

Between 1994 and 2004 actively organizing international conferences in nuclear field, with particularly important ADS conferences in Las Vegas (1994), in Kalmar (1996) and in Prochovice-Prague in 1999.

From November 2006 to May 2011 on leave from the Royal Institute of Technology for an assignment as a **Deputy Executive Director (DED) of the International Science and Technology Center (ISTC)** in Moscow representing the European Union and being responsible for 50 M\$ research project program in nuclear and related technologies. Promoting and co-funding - in the frame of ISCT activities - cooperation of Russian scientific teams with CERN, FAIR and other international big projects.

From mid-2011 Program Director of the KTHs **Master Program in Nuclear Energy Technology** which he designed and established at KTH in 2005-2006 before

his term at the International Science and Technology Center in Moscow. Co-organizer and an active participant of the European Master in Nuclear Energy (**EMINE**) in the frame of KIC-Innoenergy master programs. **EMINE** master program was assessed in 2014 and 2017 as the best KIC-InnoEnergy master program, KTH's Master in Nuclear Energy Technology was nationally assessed in 2013 as one of the 5 best masters programs at KTH – out of 75 programs.

In 2015 initiated and became an active participant of the European project: Baltic Region Initiative for Long Lasting Innovative Nuclear Technologies – **BRILLIANT**, involving Baltic states: Lithuania, Latvia and Estonia; Poland and Sweden. This project focuses on a competence build-up in nuclear power technology based on the Swedish examples and Swedish nuclear facilities.